

REPLACEMENT SHEET

		* * * * *										351
Mosquito	DEN1	KGVSVMCT-GSFKLEKEVAETQHGTVLVQVKYEGTDAPCKIPFSSQDEKGV										
	DEN3	KGMSYAMCL-NTFVLKKEVSETQHGTILIKVEYKGEDAPCKIPFSTEDGQGA										
	DEN2	KGMSYSMCT-GKFKVVEEIAETQHGTIVIRVQYEGDGSPCKIPLEIMDLNRH										
	DEN4	KGMSYTMCS-GKFSIDKEMAETQHGTTVVKVYEGAGAPCKVPIEIRDVNKEK										
	JE	KGTTYGMCT-EKFSFAKNPADTGHGTVVIELSYSGSDGPKPIVSVASLNDM										
	MV	KGTTYGMCT-EKFTFSKNPADTGHGTVVLELQYTGS DGPKPISSVASLNDM										
	KUN	KGTTYGVCS-KAFRFLGTPADTGHGTVVLELQYTGT DGPKPISSVASLNDL										
	WN	KGTTYGVCS-KAFKFLGTPADTGHGTVVLELQYTGT DGPKVPISSVASLNDL										
	SLE	KGTTYGMCD-SAFTFSKNPTDTGHGTVIVELQYTGSNGPCRVPISVTANLMDL										
	YF	KGTSYKMCT-DKMSFVNPTDTGHGTAVMQVKVPKG-APCRIPVMVADDLTAS										
Tick	TBE	KGLTYTMC DKTKFTWKRAPTDSGHDTVMEVTFSGT-KPCRIPVRAVAHGS PD										
	KFD	KGMTYTVCEGSKFAWKRPPTDSGHDTVMEVTTYTGS-KPCRIPVRAVAHGEPN										
	KUM	KGLTYTMC DKTKFTWKRAPTDSGHDTVMEVTFSGT-KPCRIPVRAVAHGS PD										
	LI	KGLTYTMC DKSKFAWKRTPTDSGHDTVMEVTFSGS-KPCRIPVRAVAHGS PD										
	LGT	KGLTYTVCDKTKFTWKRAPTDSGHDTVMEVGFSGT-RPCRIPVRAVAHGVPE										
	OHF	KGLTYTMC DKAKFTWKRAPTDSGHDTVMEVAFSGT-KPCRIPVRAVAHGS PD										
	POW	KGTTYSMCDKAKFKWKRVPVDSGHDTVMEVSYTGS DKPCRIPVRAVAHGVPA										
		* * * * *										395
Mosquito	DEN1	Q-NGRLITANPIVIDKEK--PVNIEAE-PPFGESYIVVGAGEKALKLSWFKK	SEQ ID NO:4									
	DEN3	H-NGRLITANPVVTKKEE--PVNIEAE-PPFGESNIVIGIGDKALKINWYRK	SEQ ID NO:5									
	DEN2	V-LGRLITVNPIVTEKDS--PVNVEAE-PPLGDSYIIIGVEPGQLKLNWFKK	SEQ ID NO:6									
	DEN4	V-VGRIISSTPLAENTNS--VTNIELE-RPL-DSYIVIGVGNSALT LHWFRK	SEQ ID NO:7									
	JE	TPVGRLVTNPNPFVATSSANSKVLVEME-PPFGDSYIVVGRGDKQINHHWHKA	SEQ ID NO:8									
	MV	TPVGRMVTANPYVASSTANAKVLVEIE-PPFGDSYIVVGRGDKQINHHWHKE	SEQ ID NO:9									
	KUN	TPVGRLVTNPNPFVSVSTANAKVLIELE-PPFGDSYIVVGRGEQQINHHWHKS	SEQ ID NO:10									
	WN	TPVGRLVTNPNPFVSVATANAKVLIELE-PPFGDSYIVVGRGEQQINHHWHKS	SEQ ID NO:11									
	SLE	TPVGRLVTNPNPFISTGGANNKVMIEVE-PPFGDSYIVVGRGTTQINYYHWHKE	SEQ ID NO:12									
	YF	VNKGILVTNPNPIASTNED--EVLIEVN-PPFGDSYIIVGTGDSRLTYQWHKE	SEQ ID NO:13									
Tick	TBE	VNVAMLITPNPTIENNGG--GFIEMLQPP-GDNIYYVG---ELSYQWFQK	SEQ ID NO:14									
	KFD	VNVASLITPNPSMENTGG--GFVELQLPP-GDNIYYVG---ELSHQWFQK	SEQ ID NO:15									
	KUM	VNVAMLITPNPTIENNGG--GFIEMLQPP-GDNIYYVG---ELSHQWFQK	SEQ ID NO:16									
	LI	VNVAMLITPNPTIENDGG--GFIEMLQPP-GDNIYYVG---ELSHQWFQT	SEQ ID NO:17									
	LGT	VNVAMLITPNPTMENNGG--GFIEMLQPP-GDNIYYVG---DLNYQWFQK	SEQ ID NO:18									
	OHF	VDVAMLITPNPTIENNGG--GFIEMLQPP-GDNIYYVG---ELKHQWFQK	SEQ ID NO:19									
	POW	VNVAMLITPNPTIETNGG--GFIEMLQPP-GDNIYYVG---DLSQQWFQK	SEQ ID NO:20									

FIG. 1

REPLACEMENT SHEET

USA99b	(1)	QKGTYYGVCSKAFKELGTPADTGHGTVLLEQYTGTDGPKVPISSVASLNDLTPVGR	296	355
ETH76	(1)	.....	
ISR52	(1)	.....	
ISR53	(1)	.....	
AUS60	(1)	.....	
IND80	(1)	.....	
MAD78	(1)	.....	
SA89	(1)	.....	
MAD88	(1)	.....	
SA58	(1)	.....	
JE	(1)	A.....M.TEK.S.AKN.....I.S.S.S.....I.V.....M.....		
SLE	(1)	KI.....M.DS.T.SKN.T.....IV.....SN.R.....VT.N.M.....		
MVE	(1)	K.....M.TEK.T.SKN.....S.....I.....M.....M.....		
356				
USA99b	(61)	VTVNPFVSATANAKVLILEPPEGDSYIVVGRGEQOINHHMHKSGSSIGK	406	SEO ID NO:21
ETH76	(61)	.....	
ISR52	(61)	.....	
ISR53	(61)	.....	
AUS60	(61)	.....	
IND80	(61)	.....	
MAD78	(61)	.....	
SA89	(61)	.....	
MAD88	(61)	.....	
SA58	(61)	.....	
JE	(61)	.....	
SLE	(61)	.....	
MVE	(61)	.....	

FIG. 6

REPLACEMENT SHEET

		300	351		
Mosquito	DEN1	KGVSYSVMCT-GSFKLEKEVAETQHGTVLVQVKYEGTDAPCKIPFSSQDEKGV			
	DEN2	KGMSYSMCY-GKFKVVEEIAETQHGTIVIRVQYEGDGSPCKIPLEIMDLNHR			
	DEN3	KGMSYAMCL-NTFVLKKEVSETQHGTILIKVEYKGEDAPCKIPFSTEDGQGKA			
	DEN4	KGMSYTMCS-GKFSIDKEMAETQHGTTVVKVYEGAGAPCKVPIEIRDVNKEK			
	JE	KGTTYGMCT-EKFSFAKNPADTGHGTVVIELSYSGSDGPCKIPIVSVASLNDM			
	WN	KGTTYGVCS-KAFKFLGTPADTGHGTVVLELQYTGTDGPCKVPISSVASLNDL			
	YF	KGTSYKMCT-DKMSFVKNPTDGTGHGTAVMQVKVPKG-APCRIPVMVADDLTAS			
Tick	RSSE	KGLTYTMCDKTKFTWKRAPTDSGHDTVVMVETFSGT-KPCRIPVRAVAHGSPD			
	CEE	KGLTYTMCDKTKFTWKRAPTDSGHDTVVMVETFSGT-KPCRIPVRAVAGHSPD			
	LI	KGLTYTMCDKSKFAWKRTPTDSGHDTVVMVETFSGS-KPCRIPVRAVAHGSPD			
	LGT	KGLTYTVCDKTKFTWKRAPTDSGHDTVVMVGVFSGT-RPCRIPVRAVAGVPE			
	POW	KGTTYSMCDKAKFKWKRVPVDSGHDTVVMVSYTGS DKPCRIPVRAVAGVPA			
	KFD	KGMTYTVCEGSKFAWKRPPTDSGHDTVVMVETYTGS-KPCRIPVRAVAGEPN			
	OHF	KGLTYTMCDKAKFTWKRAPTDSGHDTVVMVAFSGT-KPCRIPVRAVAHGSPD			
		352	395		
Mosquito	DEN1	Q-NGRLITANPIVIDKEK--PVNIEAE-PPFGESYIVVGAGEKALKLSWFKK	SEQ ID NO:4		
	DEN2	V-LGRLITVNPIVTEKDS--PVNVEAE-PPLGDSYIIIGVEPGQLKLNWFKK	SEQ ID NO:6		
	DEN3	H-NGRLITANPVVTKKEE--PVNIEAE-PPFGESNIVIGIGDKALKINWYRK	SEQ ID NO:5		
	DEN4	V-VGRIISSTPLAENTNS--VTNIELE-RPL-DSYIVIGVGNSALTLHWFRK	SEQ ID NO:7		
	JE	TPVGRLVTNPNPFVATSSANSKVLVEME-PPFGDSYIVVGRGDKQINHHWHKA	SEQ ID NO:8		
	WN	TPVGRLVTNPNPFVSVATANAKVLIELE-PPFGDSYIVVGRGEQQINHHWHKS	SEQ ID NO:11		
	YF	VNKGILVTNPIASTNED--EVLIEVN-PPFGDSYIIIVGTGDSRLTYQWHKE	SEQ ID NO:13		
Tick	RSSE	VNVAMLITPNPTIENNGG---GFIEMQLPP-GDNIIYVG----ELSYQWFQK	SEQ ID NO:26		
	CEE	VNVAMLITPNPTIENNGG---GFIEMQLPP-GDNIIYVG----ELSHQWFQK	SEQ ID NO:27		
	LI	VNVAMLITPNPTIENDGG---GFIEMQLPP-GDNIIYVG----ELSHQWFQT	SEQ ID NO:17		
	LGT	VNVAMLITPNPTMENNGG---GFIEMQLPP-GDNIIYVG----DLNHQWFQK	SEQ ID NO:18		
	POW	VNVAMLITPNPTIETNGG---GFIEMQLPP-GDNIIYVG----DLSQQWFQK	SEQ ID NO:20		
	KFD	VNVASLITPNPSMENTGG---GFVELQLPP-GDNIIYVG----ELSHQWFQK	SEQ ID NO:15		
	OHF	VDVAMLITPNPTIENNGG---GFIEMQLPP-GDNIIYVG----ELKHQWFQK	SEQ ID NO:19		

FIG. 16